RAW SEQUENCE LISTING PATENT APPLICATION US/08/319,831

DATE: 05/26/95 TIME: 10:57:38

INPUT SET: S3895.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING
2		
3	(1) Ge	eneral Information:
4 5 6 7 8	(i)	SEQUENCE LISTING eneral Information: APPLICANT: Hewick, Rodney M. Wang, Jack H. Wozney, John M. Celeste, Anthony J.
9 10 11	(ii)	TITLE OF INVENTION: Bone and Cartilage Inductive Proteins
12 13	(iii)	NUMBER OF SEQUENCES: 15
14 15 16 17 18 19 20 21	(iv)	CORRESPONDENCE ADDRESS: (A) ADDRESSEE: Legal Affairs, Genetics Institute, Inc. (B) STREET: 87 CambridgePark Drive (C) CITY: Cambridge (D) STATE: MA (E) COUNTRY: USA (F) ZIP: 02140
22 23 24 25 26 27	(v)	COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
28 29 30 31 32	(vi)	CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: US 08/319,831 (B) FILING DATE: 6-OCT-1994 (C) CLASSIFICATION:
33 34 35 36 37	(viii)	ATTORNEY/AGENT INFORMATION: (A) NAME: Kapinos, Ellen J. (B) REGISTRATION NUMBER: 32,245 (C) REFERENCE/DOCKET NUMBER: GI 5182A-DIV
38 39 40 41	(ix)	TELECOMMUNICATION INFORMATION: (A) TELEPHONE: 617-876-1170 (B) TELEFAX: 617-876-5851
42	(2) INFOR	MATION FOR SEQ ID NO:1:
44 45 46	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 amino acids (B) TYPE: amino acid

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47 48		(C) STRANDEDNESS: single (D) TOPOLOGY: unknown
49 50	(ii)	MOLECULE TYPE: peptide
51 52	(iii)	HYPOTHETICAL: NO
53 54 55	(iv)	ANTI-SENSE: NO
56	/wi\	ORIGINAL SOURCE:
57	(🗸 🗆)	(F) TISSUE TYPE: Bone
58		(F) HISSON HEE. BOME
59	(gi)	SEQUENCE DESCRIPTION: SEQ ID NO:1:
60	(XI)	Philosophia property in the state of the sta
61	Δra	His Glu Leu Tyr Val Ser Phe Gln Asp Leu Gly Trp Leu Asp Trp
62	1	5 10 15
63	-	
64	Val	Ile Ala Pro Gln Gly Tyr
65		20
66		
67	(2) INFO	RMATION FOR SEQ ID NO:2:
68	•	
69	(i)	SEQUENCE CHARACTERISTICS:
70		(A) LENGTH: 18 amino acids
71		(B) TYPE: amino acid
72		(C) STRANDEDNESS: single
73		(D) TOPOLOGY: unknown
74		
75	(ii)	MOLECULE TYPE: peptide
76		IND ATTENDED A VA
77	(111)	HYPOTHETICAL: NO
78 79	(ANMI CENCE. NO
80	(10)	ANTI-SENSE: NO
81	(17)	FRAGMENT TYPE: internal
82	(•)	PROMERT III I. INCCINII
83	(vi)	ORIGINAL SOURCE:
84	(/	(A) ORGANISM: Bos taurus
85		(F) TISSUE TYPE: Bone
86		(-,
87		
88	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:2:
89		
90	Leu	Ser Ala Thr Ser Val Leu Tyr Tyr Asp Ser Ser Asn Asn Val Ile
91	1	5 10 15
92		
93	Leu	Arg
94		
95		
96	(2) INFO	RMATION FOR SEQ ID NO:3:
97	, 2 \	CECHENGE GUADAGEDICATOC.
98 99	(1)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 amino acids

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100
                (B) TYPE: amino acid
                (C) STRANDEDNESS: single
101.
102
                (D) TOPOLOGY: unknown
103
104
          (ii) MOLECULE TYPE: peptide
105
106
         (iii) HYPOTHETICAL: NO
107
108
          (iv) ANTI-SENSE: NO
109
110
          (vi) ORIGINAL SOURCE:
                (A) ORGANISM: Bos taurus
111
112
                (F) TISSUE TYPE: Bone
113
114
115
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
116
           Ala Cys Cys Ala Pro Thr Lys
117
118
119
      (2) INFORMATION FOR SEQ ID NO:4:
120
121
122
           (i) SEQUENCE CHARACTERISTICS:
123
                (A) LENGTH: 23 amino acids
                (B) TYPE: amino acid
124
125
                (C) STRANDEDNESS: single
126
                (D) TOPOLOGY: unknown
127
          (ii) MOLECULE TYPE: peptide
128
129
         (iii) HYPOTHETICAL: NO
130
131
132
          (vi) ORIGINAL SOURCE:
133
                (A) ORGANISM: Bos taurus
134
                (F) TISSUE TYPE: Bone
135
136
137
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
138
139
           Thr Asn Glu Leu Pro Pro Pro Asn Lys Leu Pro Gly Ile Phe Asp Asp
140
                                                  10
                                                                       15
141
142
           Val His Gly Ser His Gly Arg
143
                       20
144
145
      (2) INFORMATION FOR SEQ ID NO:5:
146
           (i) SEQUENCE CHARACTERISTICS:
147
148
                (A) LENGTH: 80 base pairs
149
                (B) TYPE: nucleic acid
150
                (C) STRANDEDNESS: double
151
                (D) TOPOLOGY: linear
152
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```
(ii) MOLECULE TYPE: DNA (genomic)
153
154
         (iii) HYPOTHETICAL: NO
155
156
157
          (iv) ANTI-SENSE: NO
158
159
          (vi) ORIGINAL SOURCE:
                (A) ORGANISM: Bos taurus
160
161
162
         (vii) IMMEDIATE SOURCE:
163
                (B) CLONE: acc30
164
       (viii) POSITION IN GENOME:
165
166
                (C) UNITS: bp
167
168
          (ix) FEATURE:
                (A) NAME/KEY: CDS
169
170
                (B) LOCATION: 25..57
171
172
173
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
174
     GGATCCGCGT GCTGTGCTCC GACC AAG CTG AGC GCC ACC TCC GTG CTC TAC
                                                                                51
175
176
                                  Lys Leu Ser Ala Thr Ser Val Leu Tyr
177
178
179
     TAC GAC AGCAGCAACA ATGTAATTCT AGA
                                                                                80
180
     Tyr Asp
181
      10
182
183
184
     (2) INFORMATION FOR SEQ ID NO:6:
185
186
             (i) SEQUENCE CHARACTERISTICS:
187
                   (A) LENGTH: 11 amino acids
188
                   (B) TYPE: amino acid
189
                   (D) TOPOLOGY: linear
190
191
            (ii) MOLECULE TYPE: protein
192
193
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
194
195
     Lys Leu Ser Ala Thr Ser Val Leu Tyr Tyr Asp
196
      1
                        5
                                            10
197
     (2) INFORMATION FOR SEQ ID NO:7:
198
199
200
           (i) SEQUENCE CHARACTERISTICS:
201
                (A) LENGTH: 199 base pairs
202
                (B) TYPE: nucleic acid
203
                (C) STRANDEDNESS: double
204
                (D) TOPOLOGY: linear
```

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	INPUI 5E1: 53695.F	uw
206	(ii) MOLECULE TYPE: DNA (genomic)	
207	(iii) NUDOMURMICAL. NO	
208 209	(iii) HYPOTHETICAL: NO	
210	(vi) ORIGINAL SOURCE:	
211	(A) ORGANISM: Bos taurus	
212		
213	(vii) IMMEDIATE SOURCE:	
214	(A) LIBRARY: Bovine genomic	
215 216	(B) CLONE: Lambda 9800-10	
217	(viii) POSITION IN GENOME:	
218	(C) UNITS: bp	
219	(1)	
220	(ix) FEATURE:	
221	(A) NAME/KEY: exon	
222	(B) LOCATION: 30199	
223	(in) parmupa.	
224 225	(ix) FEATURE: (A) NAME/KEY: intron	
226	(B) LOCATION: 129	
227	(2) 200111011 1112	
228	(ix) FEATURE:	
229	(A) NAME/KEY: CDS	
230	(B) LOCATION: 30179	
231		
232 233	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
234	(XI) SEQUENCE DESCRIPTION: SEQ ID NO.7:	
235	TGCCCGCTGC CCCCTCCCGC CCCCGCCAG GTG CAC CTG CTG AAG CCG CAC GCG	53
236	Val His Leu Leu Lys Pro His Ala	
237	1 5	
238		
239	GTC CCC AAG GCG TGC TGC GCG CCC ACC AAG CTG AGC GCC ACT TCC GTG	101
240 241	Val Pro Lys Ala Cys Cys Ala Pro Thr Lys Leu Ser Ala Thr Ser Val 10 15 20	
241	10 15 20	
243	CTC TAC TAC GAC AGC AGC AAC AAC GTC ATC CTG CGC AAG CAC CGC AAC	149
244	Leu Tyr Tyr Asp Ser Ser Asn Asn Val Ile Leu Arg Lys His Arg Asn	
245	25 30 35 40	
246		
247	ATG GTG GTC CGC GCC TGC GGC TGC CAC TGAGGCCCCA ACTCCACCGG	196
248 249	Met Val Val Arg Ala Cys Gly Cys His 45 50	
250	45 50	
251	CAG	199
252		
253		
254	(2) INFORMATION FOR SEQ ID NO:8:	
255		
256	(i) SEQUENCE CHARACTERISTICS:	
257 258	(A) LENGTH: 49 amino acids (B) TYPE: amino acid	
230	(B) TIPE: dillIIO dCIG	